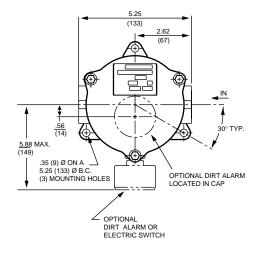
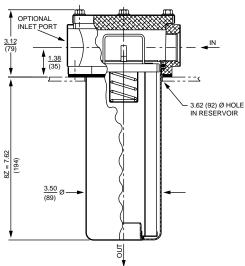
## **ZT** Tank-Mounted Filter

## 40 gpm 150 L/min 100 psi 7 bar







Optional mounting ring available to weld to tank.

Metric dimensions in ( ).
Model No. of filter in photograph is ZT8ZZ10PY2.

### Filter Housing Specifications

Flow Rating:	Up to 40 gpm (150 L/min) for 150 SUS (32 cSt) fluids
Max. Operating Pressure:	100 psi (7 bar)
Min. Yield Pressure:	400 psi (28 bar)
Rated Fatigue Pressure:	90 psi (6 bar), per NFPA T2.6.1-R1-1991
Temp. Range:	-20°F to 225°F (-29°C to 107°C)
Bypass Setting:	Cracking: 25 psi (1.7 bar) Full Flow: 39 psi (2.7 bar)
Porting Head & Cap: Element Case:	Die Cast Aluminum Steel
Weight of ZT-8Z:	3.7 lbs. (1.7 kg)
Element Change Clearance:	10.0" (254 mm)

# Element Performance Information

	Absolute Rating Per ISO 4572/NFPA T3.10.8.8 Using automated particle counter (APC) calibrated per ISO 4402			Abs. Rating Using APC calibr	Dirt Holding	
Element	ß <sub>x</sub> ≥ 75	$B_x \ge 100$	$B_x \ge 200$	$ m eta_x$ (c) $\geq 200$	$\rm B_{x}^{(c)} \geq 1000$	Capacity gm
8Z3	6.8	7.5	10.0	N/A	N/A	39
8Z10	15.5	16.2	18.0	N/A	N/A	32
8Z1	<1.0	<1.0	<1.0	<4.0	4.2	51
8Z3	<1.0	<1.0	<2.0	4.7	5.8	52
8Z5	2.5	3.0	4.0	6.5	7.5	43
8Z10	7.4	8.2	10.0	10.0	12.7	55
8Z25	18.0	20.0	22.5	19.0	24.0	56

Element Collapse Rating: 150 psid (10 bar)
Flow Direction: Outside In

Element Nominal Dimensions: 3.0" (75 mm) O.D. x 9.25" (235 mm) long

### Fluid Compatibility

Type Fluid
Petroleum Based Fluids
High Water Content
Invert Emulsions
Water Glycols
Phosphate Esters
Skydrol

Appropriate Schroeder Media

All Paper (E) and Synthetic (Z) media Z1, Z3, Z5, Z10, Z25 Z10, Z25 Z3, Z5, Z10, Z25 All Z media with EPR Seals Z3H.5, Z5H.5, Z10H.5 and Z25H.5

Note: Contact factory regarding use of E Media in High Water Content, Invert Emulsion and Water Glycol Applications.

For more information, refer to Fluid Compatibility: Fire Resistant Fluids, pages 19 and 20.

## Tank-Mounted Filter **ZT**

#### ■ Dual inlet porting available.

Pressure	Ele Series	ment Part No.	Element selections are predicated on the use of 150 SUS (32 cSt) petroleum based fluid and a 25 psi (1.7 bar) bypass valve.				
Return Line Tank- Mounted	_	8Z3 paper	8Z3 (cellulose media)				
	E Media	8Z10 paper	8Z10 (cellulose media)				
		8Z25 paper	8Z25 (cellulose media)				
	Z Media	8ZZ3	8ZZ3				
		8ZZ5	8ZZ5				
		8ZZ10	8ZZ10				
		8ZZ25	8ZZ25				
	Flow	gpm (	0 10 20 30 4	0			
	FIUW	(L/min)	50 100 15	50			

Element Selection Based on

Flow Rate

**Features** 

ZT

Shown above are the elements most commonly used in this housing.

$\Delta P_{\text{hous}}$	ing				$\Delta P_{\text{element}}$	
ZT $\Delta P_{\text{housing}}$ for fluids with sp gr = 0.86:				$\Delta P_{element}$ = flow x element $\Delta P$ factor x viscosity factor		
	(DE)				El. ΔP factor	s @ 150 SUS (32 cSt):
10	(25)	(75)	(125)	1	8Z3	.25
	- 1	- 1			8Z10	.09
8  <del>-</del>	++		<del>-                                     </del>	(0.50)	8Z25	.02
· <u>s</u> ,			-;		8ZZ1	.37
ا ۾		i		B par	8ZZ3	.21
4				\P(	8ZZ5	.13
				(0.25)	8ZZ10	.11
2	+	$-\!\!+\!\!\!-$	4	ł	8ZZ25	.08
0	10	0 20 30 40			If working in units of bars & L/min, divide above factor by 54.9.	
Flow gpm  sp gr = specific gravity				Viscosity factor: Divide viscosity by 150 SUS (32 cSt).		
	ZT ΔP <sub>ho</sub>	10 (25) 8 8 4 2 0 0 10	ZT ΔP <sub>housing</sub> for fluids with Flow (L/min) (75) (25) (75) (75) (75) (75) (75) (75) (75) (7	ZT $\Delta P_{housing}$ for fluids with sp gr = 0.   Flow (L/min) (125	ZT $\Delta P_{\text{housing}}$ for fluids with sp gr = 0.86:  Flow (L/min) (125)  (0.50)  R  O  Flow gpm	ZT $\Delta P_{housing}$ for fluids with sp gr = 0.86: $\begin{bmatrix} \Delta P_{element} = flo \\ x \ y \\ \hline El. \ \Delta P \ factor \\ 8Z3 \\ 8Z10 \\ 8Z25 \\ 8ZZ1 \\ 8ZZ3 \\ 8ZZ5 \\ 8ZZ1 \\ 8ZZ3 \\ 8ZZ5 \\ 8ZZ1 \\ 8ZZ3 \\ 8ZZ5 \\ 8ZZ10 \\ 8ZZ25 \\ If \ working in divide above \\ Viscosity fact Divide viscosity fact Divide viscosity fact by the property of the $

**Pressure** Drop Information Based on Flow Rate

and Viscosity

**Filter** Model Number Selection

FEAFE SRLT

ESAFE RIT

Other **Available Options** 

Sizing of elements should be based on element flow information provided in the Element Selection chart above.

Filter Series	Element Length	Part No. Media	Seal Material	Inlet Porting	Outlet Porting	Dirt Alarm (See Appendix A for complete list of options)
ZT	8"	Z3** Z10** Z25** ZZ1 ZZ3 ZZ5 ZZ10 ZZ25	(Omit) = Buna N H = EPR*	P = 1" NPTF  PP = Dual 1" NPTF  S = 15/16" -12 SAE Straight (SAE-16)  SS = Dual 15/16" -12 SAE Straight (SAE-16)  B = ISO 228 G-1 (1-11 BSPP)  BB = Dual ISO 228 G-1 (1-11 BSPP)	(Omit) = Non- threaded  OP = 1½" NPTF Male	Y2 = Back Mounted Tri-Color Gauge  Y2C = Bottom Mounted Gauge in Cap  Y5 = Back Mounted Gauge in Cap  ES = Electric Switch  ES1 = Heavy-Duty Electric Switch with Conduit Connection

\*When "H" seals are ordered all aluminum filter parts are anodized.

\*\*Only available with Buna N seals.

See also "Accessories for Tank-Mounted Filters" section.

See Appendix B for additional information on these options and instructions on how to order.